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TITLE: VOICE EXCITATION SIGNAL
CODING METHOD
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ABSTRACT:

PURPOSE: To reduce distortion while reducing the amount of computations by obtaining noise excitation vector energy terms through simple inner products of the parameter vectors, which are binomial products of the coefficients of impulse responses or their linear sums, and regression coefficient vectors made for every noise excitation vector beforehand stored corresponding

to the parameter vectors.

CONSTITUTION: A coding table 11 which consists of conventional m number of n dimensional noise excitation vectors, a table 21 containing regression coefficients for every noise excitation vector and a means 22 which generates energy estimation parameters by linear combination of binominal products of impulse response series for every coefficient are provided. Energy values are obtained by the inner products of the estimated parameters and the regression coefficients of the table 21. Since pre or main selections are made by obtaining the energy terms through binominal products of the impulse responses or their linear sum and the regression coefficients, the amount of computations is reduced and high precision excitation signal coding is obtained.

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